

A method to determine a viable energy business model

Goal

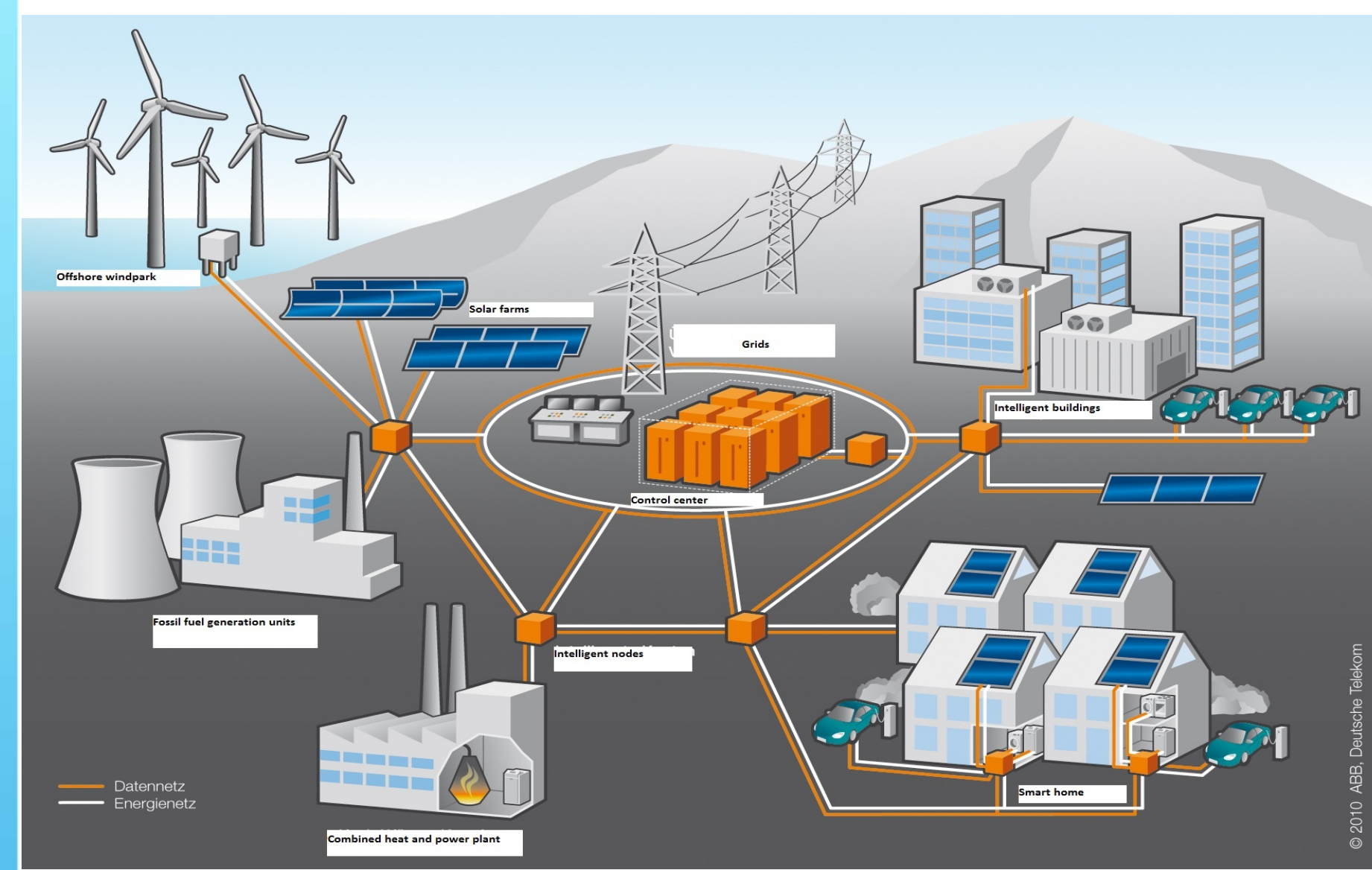
- To develop a method to determine a viable configuration of services that enable energy business models
- To determine the requirements necessary to develop an ICT architecture for viable energy business models

A business model is viable when a configuration of services enables all the participating players to capture value (economic & non-economic) such that they are committed to the business model - (Chesbrough, Vanhaverbeke & West, 2006)

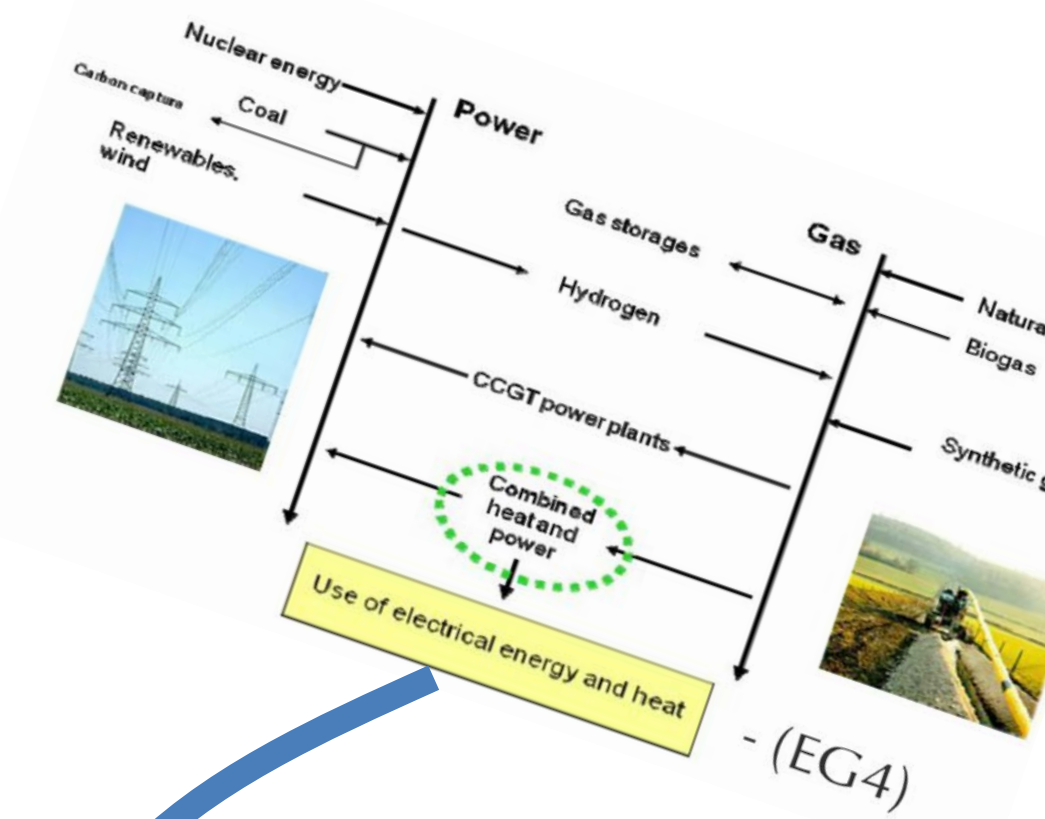
Scope

- Stakeholder analysis
- Study business models at the organizational level and at the network level
- Design and evaluation of viable business models
- Elicit business requirements for the ICT architecture

Energy business models



A business model describes how business is carried out; it includes a description of the stakeholders, their roles, value proposition for the stakeholders involved, and the underlying logic of value creation, value exchange, and value capture at an organisational level, and at a network level. Furthermore, it defines the business architecture that enables the value creation, value exchange, and value capture logic (Al-Debei & Avison 2010; Pateli & Giaglis 2004; Tapscott, Ticoll & Lowy 2000; Zott, Amit & Massa 2011)



Project: Future energy systems
Theme: Embedding decentralized energy supply in the infrastructure
Promoter: prof. dr. ir. J.C. (Hans) Wortmann
Supervisor: prof. dr. G.B. (George) Huitema
PhD Candidate: Austin Dsouza

Results

- Robust, scientific method that allows one to determine a viable configuration of services that enables energy business models
- Business requirements for the ICT architecture of the energy business models

Methodology

- Design science research
- Case study
- Business modelling ontologies